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SEQUENCE LISTING

							_							•	
<110>	INST	ITUT	o su	PERI	ORE	DI S	ANIT	A							
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<130>	พ.89	060A	JHS												•
<160>	55														
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cat tgo His Cys	caa Gln 35	gtt Val	tgt Cys	ttc Phe	ata Ile	aca Thr 40	aaa Lys	gcc Ala	tta Leu	ggc Gly	atc Ile 45	tcc Ser	tac Tyr	ggc	144
agg aag Arg Lys 50	g aag s Lys	cgg Arg	aga Arg	cag Gln	cgt Arg 55	cga Arg	aga Arg	cct Pro	cct Pro	caa Gln 60	ggc Gly	agt Ser	cag Gln	act Thr	192
cat caa His Glr 65	gtt Val	tct Ser	cta Leu	tca Ser 70	aag Lys	caa Gln	ccc Pro	acc Thr	tcc Ser 75	caa Gln	tcc Ser	cga Arg	GJ À aaa	gac Asp 80	240
ccg aca Pro Thr	ggc Gly	ccg Pro	aag Lys 85	gaa Glu	cag Gln	aag Lys	aag Lys	aag Lys 90	gtg Vál	gag Glu	aga Arg	gag Glu	aca Thr 95	gag Glu	288
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Met Glu	Pro	Val	Asp	Pro	Arg	Leu	Glu	Pro	Trp	Lys	His	Pro	Gly	Ser	

Gln Pro Lys Thr Ala Cys Thr Asn Cys Tyr Cys Lys Lys Cys Cys Phe 20 25 30

His Cys Gln Val Cys Phe Ile Thr Lys Ala Leu Gly Ile Ser Tyr Gly 35 40 45

Arg Lys Lys Arg Arg Gln Arg Arg Pro Pro Gln Gly Ser Gln Thr 50 55 60

His Gln Val Ser Leu Ser Lys Gln Pro Thr Ser Gln Ser Arg Gly Asp 65 70 75 80

Pro Thr Gly Pro Lys Glu Gln Lys Lys Lys Val Glu Arg Glu Thr Glu 85 90 95

Thr Asp Pro Val His Gln 100

<210> 3

<211> 261

<212> DNA

<213> Human immunodeficiency virus

<220>

<221> CDS

<222> (1)..(261)

<400> 3

atg gag cca gta gat cct cgt cta gag ccc tgg aag cat cca gga agt

Met Glu Pro Val Asp Pro Arg Leu Glu Pro Trp Lys His Pro Gly Ser

1 5 10 15

cag cct aaa act gct tgt acc aat tgc tat tgt aaa aag tgt tgc ttt Gln Pro Lys Thr Ala Cys Thr Asn Cys Tyr Cys Lys Lys Cys Cys Phe 20 25 30

cat tgc caa gtt tgt ttc ata aca aaa gcc tta ggc atc tcc tac ggc 144
His Cys Gln Val Cys Phe Ile Thr Lys Ala Leu Gly Ile Ser Tyr Gly
35 40 45

96

agg aag cgg aga cag cgt cga aga cct cct caa ggc agt cag act 192
Arg Lys Lys Arg Arg Gln Arg Arg Pro Pro Gln Gly Ser Gln Thr
50
55

cat caa gtt tct cta tca aag caa ccc acc tcc caa tcc cga ggg gac 240 His Gln Val Ser Leu Ser Lys Gln Pro Thr Ser Gln Ser Arg Gly Asp 65 70 75 80

ccg aca ggc ccg aag gaa tag 261
Pro Thr Gly Pro Lys Glu

3/26 <210> 4 <211> 86 <212> PRT <213> Human immunodeficiency virus <400> 4 Met Glu Pro Val Asp Pro Arg Leu Glu Pro Trp Lys His Pro Gly Ser 5 Gln Pro Lys Thr Ala Cys Thr Asn Cys Tyr Cys Lys Lys Cys Phe 25 His Cys Gln Val Cys Phe Ile Thr Lys Ala Leu Gly Ile Ser Tyr Gly 35 40 Arg Lys Lys Arg Arg Gln Arg Arg Pro Pro Gln Gly Ser Gln Thr 50 55 His Gln Val Ser Leu Ser Lys Gln Pro Thr Ser Gln Ser Arg Gly Asp 70 Pro Thr Gly Pro Lys Glu 85 <210> 5 <211> 261 <212> DNA <213> Human immunodeficiency virus <220> <221> CDS <222> (1)..(261) atg gag cca gta gat cct aga cta gag ccc tgg aag cat cca gga agt 48 Met Glu Pro Val Asp Pro Arg Leu Glu Pro Trp Lys His Pro Gly Ser 5 96 cag cct aaa act gct ggt acc aat tgc tat tgt aaa aag tgt tgc ttt Gln Pro Lys Thr Ala Gly Thr Asn Cys Tyr Cys Lys Lys Cys Cys Phe 144 cat tgc caa gtt tgt ttc ata aca aaa gcc tta ggc atc tcc tat ggc His Cys Gln Val Cys Phe Ile Thr Lys Ala Leu Gly Ile Ser Tyr Gly 192 agg aag aag cgg aga cag cga cga aga cct cct caa ggc agt cag act

Arg Lys Lys Arg Arg Gln Arg Arg Pro Pro Gln Gly Ser Gln Thr

cat caa gtt tct cta tca aag cag ccc acc tcc caa tcc cga ggg gac

His Gln Val Ser Leu Ser Lys Gln Pro Thr Ser Gln Ser Arg Gly Asp

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80

70 75 65

261 ccg aca ggc ccg aag gaa tag Pro Thr Gly Pro Lys Glu 85

<210> 6 <211> 86 <212> PRT <213> Human immunodeficiency virus

<400> 6

Met Glu Pro Val Asp Pro Arg Leu Glu Pro Trp Lys His Pro Gly Ser 5 15

Gln Pro Lys Thr Ala Gly Thr Asn Cys Tyr Cys Lys Lys Cys Phe 25 30 20

His Cys Gln Val Cys Phe Ile Thr Lys Ala Leu Gly Ile Ser Tyr Gly 35 40

Arg Lys Lys Arg Arg Gln Arg Arg Pro Pro Gln Gly Ser Gln Thr 50 55 60

His Gln Val Ser Leu Ser Lys Gln Pro Thr Ser Gln Ser Arg Gly Asp 70 75

Pro Thr Gly Pro Lys Glu 85

<210> 7 <211> 261 <212> DNA

<213> Human immunodeficiency virus

<220> <221> CDS <222> (1)..(261)

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cag cct aaa act gct tgt acc aat tgc tat tgt aaa aag tgt tgc ttt 96 Gln Pro Lys Thr Ala Cys Thr Asn Cys Tyr Cys Lys Lys Cys Cys Phe

144 cat tgc caa gtt tgt ttc ata aca gct gcc tta ggc atc tcc tat ggc His Cys Gln Val Cys Phe Ile Thr Ala Ala Leu Gly Ile Ser Tyr Gly 40

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wo:	2005/	04909	3					5/20	e					PCT/	EP2004/0124	121
2 6 6	224	224	~~~	202	030	002	003			cct	~22	ggc	204	C2 (act	192
												Gly				132
												tcc Ser				240
		ggc Gly			gaa Glu	tag										261
	1> 2>		n im	nuno	defic	cien	oy ⊽:	irus								
<400	0>	8														
Met 1	Glu	Pro	Val	Asp 5	Pro	Arg	Leu	Glu	Pro 10	Trp	Lys	His	Pro	Gly 15	Ser	
Gln	Pro	Lys	Thr 20	Ala	Cys	Thr	Asn	Cys 25	Tyr	Cys	Lys	Lys	Cys 30	Cys	Phe	
His	Cys	Gln 35	Val	Cys	Phe	Ile	Thr 40	Ala	Ala	Leu	Gly	Ile 45	Ser	Tyr	Gly	
Arg	Lys 50	Lys	Arg	Arg	Gln	Arg 55	Arg	Arg	Pro	Pro	Gln 60	Gly	Ser	Gln	Thr	
His 65	Gln	Val	Ser	Leu	Ser 70	Lys	Gln	Pro	Thr	Ser 75	Gln	Ser	Arg	Gly	Asp 80	·
Pro	Thr	Gly	Pro	Lys 85	Glu											
<210 <211 <212 <213	1> 2 2> 1	9 252 DNA Humar	n imr	munod	defic	ciend	cy vi	irus								
	L> (CDS (1).	. (252	2)												•
<400)> !	9														
atg Met 1	gag Glu	cca Pro	gta Val	gat Asp 5	cct Pro	aga Arg	cta Leu	gag Glu	ccc Pro 10	tgg Trp	aag Lys	cat His	cca Pro	gga Gly 15	agt Ser	48
												aag Lys				96

WO 2005/04909	93 20	6/26 25	PCT/EP2004/012421
		aaa gcc tta ggc atc Lys Ala Leu Gly Ile 45	
		aga cct cct caa ggc Arg Pro Pro Gln Gly 60	
_	-	ccc acc tcc caa tcc Pro Thr Ser Gln Ser 75	
ccg aag gaa Pro Lys Glu	_		252

<210> 10 <211> 83

<212> PRT

<213> Human immunodeficiency virus

<400> 10

Met Glu Pro Val Asp Pro Arg Leu Glu Pro Trp Lys His Pro Gly Ser 1 5 10 15

Gln Pro Lys Thr Ala Cys Thr Asn Cys Tyr Cys Lys Lys Cys Cys Phe 20 25 30

His Cys Gln Val Cys Phe Ile Thr Lys Ala Leu Gly Ile Ser Tyr Gly 35 40 45

Arg Lys Lys Arg Arg Gln Arg Arg Pro Pro Gln Gly Ser Gln Thr 50 55 60

His Gln Val Ser Leu Ser Lys Gln Pro Thr Ser Gln Ser Pro Thr Gly 65 70 75 80

Pro Lys Glu

<210> 11

<211> 252

<212> DNA

<213> Human immunodeficiency virus

<220>

<221> CDS

<222> (1)..(252)

<400> 11

WO	2005/	0.4000	•											DCT.	Œ D3 00	4/012421
WU.	4005/	04909	3					7/2	6					PCI	EP200	4/012421
											aag Lys					48
											aaa Lys					96
											ggc Gly					144
											caa Gln 60					192
											caa Gln					240
_	aag Lys	gaa Glu	tag													252
<210 <211 <212 <213	.> 6 !> E !> F	2 33 PRT Iumar	ı imn	nunoc	defic	cienc	cy vi	irus								
Met 1	Glu	Pro	Val	Asp 5	Pro	Arg	Leu	Glu	Pro 10	Trp	Lys	His	Pro	Gly 15	Ser	
Gln	Pro	Lys	Thr 20	Ala	Cys	Thr	Asn	Cys 25	Туг	Cys	Lys	Lys	Cys 30	Cys	Phe	·
His	Cys	Gln 35	Val	Cys	Phe	Ile	Thr 40	Ala	Ala	Leu	Gly	Ile 45	Ser	Tyr	Gly	
Arg	Lys	Lys	Arg	Aṛg	Gln	Arg	Arg	Arg	Pro	Pro	Gln	Gly	Ser	Gln	Thr	

Pro Lys Glu

<210> 13

<211> 306

<212> DNA

<213> Human immunodeficiency virus

55

His Gln Val Ser Leu Ser Lys Gln Pro Thr Ser Gln Ser Pro Thr Gly

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	gat											cat His				48
cag Gln	cct Pro	aca Thr	act Thr 20	gct Ala	tgt Cys	aac Asn	aag Lys	tgt Cys 25	tac Tyr	tgt Cys	aaa Lys	aag Lys	tgt Cys 30	tgc Cys	tat Tyr	96
cat His	tgc Cys	caa Gln 35	gtt Val	tgc Cys	ttt Phe	ctg Leu	aac Asn 40	aaa Lys	ggc Gly	tta Leu	ggc Gly	atc Ile 45	tcc Ser	tat Tyr	ggc Gly	144
agg Arg	aag Lys 50	aag Lys	cgg Arg	aga Arg	cag Gln	cga Arg 55	cga Arg	gga Gly	act Thr	cct Pro	cag Gln 60	agc Ser	agt Ser	aag Lys	gat Asp	192
cat His 65	caa Gln	aat Asn	cct Pro	ata Ile	cca Pro 70	aag Lys	caa Gln	ccc Pro	ata Ile	ccc Pro 75	caa Gln	acc Thr	caa Gln	GJÀ aàa	gtc Val 80	240
tcg Ser	aca Thr	ggc Gly	ccg Pro	gaa Glu 85	gaa Glu	tcg Ser	aag Lys	aag Lys	aag Lys 90	gtg Val	gag Glu	agc Ser	aag Lys	gca Ala 95	gag Glu	288
			ttc Phe 100	gat Asp	tag											306
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<400		. 4														
Met 1	Asp	Pro	Val	Asp 5	Pro	Asn	Leu	Glu	Pro 10	Trp	Asn	His	Pro	Gly 15	Ser	
Gln	Pro	Thr	Thr 20	Ala	Cys	Asn	Lys	Cys 25	Tyr	Cys	Lys	Lys	Cys 30	Cys	Tyr	
His	Суз	Gln 35	Val	Cys	Phe	Leu	Asn 40	Lys	Gly	Leu	Gly	Ile 45	Ser	Tyr	Gly	•
7	T	T	7	7	a) -	7	7	~ 1	m\	-		_	_	_	_	

Arg Lys Lys Arg Arg Gln Arg Arg Gly Thr Pro Gln Ser Ser Lys Asp 50 60

His Gln Asn Pro Ile Pro Lys Gln Pro Ile Pro Gln Thr Gln Gly Val 65 70 75 80

Ser Thr Gly Pro Glu Glu Ser Lys Lys Lys Val Glu Ser Lys Ala Glu

Thr Asp Arg Phe Asp 100

<210> 15

<211> 306

<212> DNA

<213> Human immunodeficiency virus

<220>

<221> CDS

<222> (1)..(306)

<400> 15

atg gag cca gta gat cct aga cta gag ccc tgg aag cat cca gga agt

Met Glu Pro Val Asp Pro Arg Leu Glu Pro Trp Lys His Pro Gly Ser

1 10 15

cag cct aag act gct tgt acc aat tgc tat tgt aaa aag tgt tgc ttt 96
Gln Pro Lys Thr Ala Cys Thr Asn Cys Tyr Cys Lys Lys Cys Cys Phe
20 25 30

cat tgc caa gtt tgt ttc ata aca aaa ggc tta ggc atc tcc tat ggc
His Cys Gln Val Cys Phe Ile Thr Lys Gly Leu Gly Ile Ser Tyr Gly
35 40 45

agg aag aag cgg aga cag cga cga aga gct cct caa gac agt cag act

192

Arg Lys Lys Arg Arg Gln Arg Arg Arg Ala Pro Gln Asp Ser Gln Thr

cat caa gtt tct cta tca aag caa ccc gcc tcc cag ccc cga ggg gac
His Gln Val Ser Leu Ser Lys Gln Pro Ala Ser Gln Pro Arg Gly Asp
70 75 80

ccg aca ggc ccg aag gaa tcg aag aag gtg gag aga gag aca gag 288 Pro Thr Gly Pro Lys Glu Ser Lys Lys Lys Val Glu Arg Glu Thr Glu 85 90 95

aca gat ccg gtc gat tag . 306
Thr Asp Pro Val Asp
100

<210> 16

<211> 101

<212> PRT

<213> Human immunodeficiency virus

<400> 16

Met Glu Pro Val Asp Pro Arg Leu Glu Pro Trp Lys His Pro Gly Ser 1 5 10 15

Gln Pro Lys Thr Ala Cys Thr Asn Cys Tyr Cys Lys Lys Cys Phe

WO 2005	5/0490	93											PCT	/EP2004	/012421
		20					10/2 25	26				30			
His Cys	35	Val	Cys	Phe	Ile	Thr 40	Lys	Gly	Leu	Gly	Ile 45	Ser	Tyr	Gly	
Arg Lys	s Lys	Arg	Arg	Gln	Arg 55	Arg	Arg	Ala	Pro	Gln 60	Asp	Ser	Gln	Thr	
His Gla	n Val	Ser	Leu	Ser 70	Lys	Gln	Pro	Ala	Ser 75	Gln	Pro	Arg	Gly	Asp 80	
Pro Thi	Gly	Pro	Lys 85	Glu	Ser	Lys	Lys	Lys 90	Val	Glu	Arg	Glu	Thr 95	Glu	
Thr Asp	Pro	Val 100	Asp												•
<210> <211> <212> <213>	17 306 DNA Huma	n im	muno	defic	cien	cy v:	irus								
<220> <221> <222>	CDS	. (30	6)												
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cag cct Gln Pro	aaa Lys	act Thr 20	gct Ala	tgt Cys	aat Asn	aag Lys	tgt Cys 25	tat Tyr	tgt Cys	aaa Lys	cac His	tgt Cys 30	agc Ser	tat Tyr	96
cat tgt His Cys	cta Leu 35	gtt Val	tgc Cys	ttt Phe	cag Gln	aca Thr 40	aaa Lys	ggc Gly	tta Leu	ggc Gly	att Ile 45	tcc Ser	tat Tyr	ggc ggc	144
agg aag Arg Lys 50	aag Lys	cgg Arg	aga Arg	cag Gln	cga Arg 55	cga Arg	agc Ser	gct Ala	cct Pro	cca Pro 60	agc Ser	agt Ser	gag Glu	gat Asp	192
cat caa															240

ccg aca ggc tcg gaa gaa tcg aag aag gtg gag agc aag aca gag 288
Pro Thr Gly Ser Glu Glu Ser Lys Lys Val Glu Ser Lys Thr Glu
85 90 95

75

His Gln Asn Leu Ile Ser Lys Gln Pro Leu Pro Gln Thr Gln Gly Asp

65

aca gat cca ttc gat tag ___ 306
Thr Asp Pro Phe Asp ___ 100

<210> 18 <211> 101 <212> PRT <213> Human immunodeficiency virus <400> 18 Met Glu Pro Val Asp Pro Asn Leu Glu Pro Trp Asn His Pro Gly Ser Gln Pro Lys Thr Ala Cys Asn Lys Cys Tyr Cys Lys His Cys Ser Tyr 25 His Cys Leu Val Cys Phe Gln Thr Lys Gly Leu Gly Ile Ser Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Ser Ala Pro Pro Ser Ser Glu Asp His Gln Asn Leu Ile Ser Lys Gln Pro Leu Pro Gln Thr Gln Gly Asp Pro Thr Gly Ser Glu Glu Ser Lys Lys Lys Val Glu Ser Lys Thr Glu 90 Thr Asp Pro Phe Asp 100 <210> 19 <211> 261 <212> DNA <213> Human immunodeficiency virus <220> <221> CDS <222> (1)..(261) <400> 19 atg gat cca gta gat cct aac cta gag ccc tgg aac cat cca gga agt 48 Met Asp Pro Val Asp Pro Asn Leu Glu Pro Trp Asn His Pro Gly Ser 96 cag cct agg act cct tgt aac aag tgt tat tgt aaa aag tgt tgc tat Gln Pro Arg Thr Pro Cys Asn Lys Cys Tyr Cys Lys Lys Cys Cys Tyr 20

cat tgc caa gtt tgc ttc ata acg aaa ggc tta ggc atc tcc tat ggc

His Cys Gln Val Cys Phe Ile Thr Lys Gly Leu Gly Ile Ser Tyr Gly

agg aag aag cgg aga cag cga cga aga cct cct caa ggc ggt cag gct

35

144

W.O. 600.5/0.400.00						
WO 2005/049093		12/2	26		PCI	/EP2004/012421
Arg Lys Lys Arg 50	Arg Gln Ar			Gln Gly 60	Gly Glr	Ala
cat caa gat cct His Gln Asp Pro 65				_		
ccg aca ggc ccg Pro Thr Gly Pro	, ,	Ŧ.				. 261
<210> 20 <211> 86 <212> PRT <213> Human imm	nunodeficie:	ncy virus				
<400> 20		•				
Met Asp Pro Val	Asp Pro As: 5	n Leu Glu	Pro Trp 10	Asn His	Pro Gly 15	Ser
Gln Pro Arg Thr 20	Pro Cys Asi	n Lys Cys 25	Tyr Cys	Lys Lys	Cys Cys 30	Tyr
His Cys Gln Val 35	Cys Phe Ile	Thr Lys	Gly Leu	Gly Ile 45	Ser Tyr	Gly
Arg Lys Lys Arg 50	Arg Gln Arc	g Arg Arg	Pro Pro	Gln Gly 60	Gly Glr	Ala
His Gln Asp Pro 65	Ile Pro Ly: 70	s Gln Pro	Ser Ser 75	Gln Pro	Arg Gly	Asp 80
Pro Thr Gly Pro	Lys Glu 85					
<210> 21 <211> 306 <212> DNA <213> Human imm	nunodeficien	ncy virus				·
<220>	5)					
<400> 21 atg gaa cta gta Met Glu Leu Val 1						

cag cct aca act cct tgt acc aaa tgc tat tgt aaa agg tgt tgc ttt Gln Pro Thr Thr Pro Cys Thr Lys Cys Tyr Cys Lys Arg Cys Cys Phe 20 25 30

								13/2	6							
cat His	tgc Cys	caa Gln 35	tgg Trp	tgc Cys	ttt Phe	aca Thr	acg Thr 40	aag Lys	ggc Gly	tta Leu	ggc Gly	atc Ile 45	tcc Ser	tat Tyr	ggc Gly	144
agg Arg	aag Lys 50	aag Lys	cgg Arg	aga Arg	cag Gln	cga Arg 55	cga Arg	aga Arg	act Thr	cct Pro	caa Gln 60	agc Ser	agt Ser	cag Gln	ata Ile	192
cat His 65	caa Gln	gat Asp	cct Pro	gta Val	cca Pro 70	aag Lys	caa Gln	ccc Pro	tta Leu	tcc Ser 75	caa Gln	gcc Ala	cga Arg	GJÀ āāā	aac Asn 80	240
						tcg Ser										288
	gat Asp	-	-	-	tag											306
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Gln	Pro	Thr	Thr 20	Pro	Cys	Thr	Lys	Cys 25	Tyr	Cys	Lys	Arg	Cys 30	Суз	Phe	
His	Cys	Gln 35	Trp	Cys	Phe	Thr	Thr 40	Lys	Gly	Leu	Gly	Ile 45	Ser	Туг	Gly	
Arg	Lys 50	Lys	Arg	Arg	Gln	Arg 55	Arg	Arg	Thr	Pro	Gln 60	Ser	Ser	Gln	Ile	
His 65	Gln	Asp	Pro	Val	Pro 70	Lys	Gln	Pro	Leu	Ser 75	Gln	Ala	Arg	Gly	Asn 80	

Pro Thr Gly Pro Lys Glu Ser Lys Lys Glu Val Glu Ser Lys Ala Lys

Thr Asp Pro Cys Asp 100

<210> 23 <211> 306

<212> DNA <213> Human immunodeficiency virus

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			tgt aaa atg tgt Cys Lys Met Cys 30	
			tta ggc atc tcc Leu Gly Ile Ser 45	
			cct cag agc agt Pro Gln Ser Ser 60	
cat caa aat cct His Gln Asn Pro 65	gta cca aag Val Pro Lys 70	caa ccc tta Gln Pro Leu	ccc acc acc aga Pro Thr Thr Arg 75	ggg aac 240 Gly Asn 80
ccg aca ggc ccg Pro Thr Gly Pro	aag gaa tcg Lys Glu Ser 85	aag aag gag Lys Lys Glu 90	gtg gag agc aag Val Glu Ser Lys	aca gag 288 Thr Glu 95
aca gat cca ttc Thr Asp Pro Phe 100	_			306
<210> 24 <211> 101 <212> PRT <213> Human imm	munodeficienc	cy virus		•
<400> 24				
Met Asp Pro Val 1	Asp Pro Asn 5	Leu Glu Pro 10	Trp Asn His Pro	Gly Ser 15
Gln Pro Lys Thr 20	Pro Cys Asn	Lys Cys Tyr 25	Cys Lys Met Cys 30	Cys Trp
His Cys Gln Val 35	Cys Phe Leu	Asn Lys Gly 40	Leu Gly Ile Ser 45	Tyr Gly
Arg Lys Lys Arg 50	Lys His Arg 55	Arg Gly Thr	Pro Gln Ser Ser 60	Lys Asp
His Gln Asn Pro 65	Val Pro Lys		Pro Thr Thr Arg 75	Gly Asn 80

Pro Thr Gly Pro Lys Glu Ser Lys Lys Glu Val Glu Ser Lys Thr Glu

85

Thr Asp Pro Phe Asp 100

<210> 25

<211> 261

<212> DNA

<213> Human immunodeficiency virus

<220>

<221> CDS

<222> (1)..(261)

<400> 25

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cag cct aaa act gct tgt aac aat tgt tat tgt aaa aag tgc tgc tat 96 Gln Pro Lys Thr Ala Cys Asn Asn Cys Tyr Cys Lys Lys Cys Cys Tyr 20

cat tgc caa ttg tgc ttt tta aag aaa ggc tta ggc att tcc tat ggc 144 His Cys Gln Leu Cys Phe Leu Lys Lys Gly Leu Gly Ile Ser Tyr Gly 35

agg aag aag cgg agc cag cga cga gga act cct gca agt ttg caa gat 192 Arg Lys Lys Arg Ser Gln Arg Arg Gly Thr Pro Ala Ser Leu Gln Asp 50

cat caa aat cct ata cca aag caa ccc tta tcc cga acc cgc ggg gac 240 His Gln Asn Pro Ile Pro Lys Gln Pro Leu Ser Arg Thr Arg Gly Asp 65

ccg aca ggc ccg aag gaa tag 261 Pro Thr Gly Pro Lys Glu

<210> 26

<211> 86 <212> PRT

<213> Human immunodeficiency virus

<400> 26

Met Asp Pro Val Asp Pro Asn Gln Glu Pro Trp Asn His Pro Gly Ser

Gln Pro Lys Thr Ala Cys Asn Asn Cys Tyr Cys Lys Lys Cys Cys Tyr 25 _ 30

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His	Cys	Gln	Leu	Cys	Phe	Leu	Lys	ГЛS	Gly	Leu	Gly	Ile	Ser	Tyr	Gly
		35					40					45			

Arg Lys Lys Arg Ser Gln Arg Arg Gly Thr Pro Ala Ser Leu Gln Asp 50 55 60

His Gln Asn Pro Ile Pro Lys Gln Pro Leu Ser Arg Thr Arg Gly Asp 65 70 75 80

Pro Thr Gly Pro Lys Glu 85

<210> 27

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<222> (1)..(306)

<400> 27

atg	gag	ctg	gta	gat	cct	aac	cta	gag	ccc	tgg	aat	cat	ccg	gga	agt	48
Met	Glu	Leu	Val	Asp	Pro	Asn	Leu	Glu	Pro	Trp	Asn	His	Pro	Gly	Ser	
1				5					10					15		

cag cct aca act gct tgt agc aag tgt tac tgt aaa ata tgt tgc tgg 96
Gln Pro Thr Thr Ala Cys Ser Lys Cys Tyr Cys Lys Ile Cys Cys Trp
20 25 30

cat tgc caa cta tgc ttt ctg aaa aaa ggc tta ggc atc tcc tat ggc
His Cys Gln Leu Cys Phe Leu Lys Lys Gly Leu Gly Ile Ser Tyr Gly
35
40
45

agg aag aag cgg aag cac cga cga gga act cct cag agc agt aag gat 192
Arg Lys Lys Arg Lys His Arg Arg Gly Thr Pro Gln Ser Ser Lys Asp
50 55 60

cat caa aat cct ata cca gag caa ccc cta ccc atc atc aga ggg aac
His Gln Asn Pro Ile Pro Glu Gln Pro Leu Pro Ile Ile Arg Gly Asn
65 70 75 80

ccg aca gac ccg aaa gaa tcg aag aag gag gtg gcg agc aag gca gag
Pro Thr Asp Pro Lys Glu Ser Lys Lys Glu Val Ala Ser Lys Ala Glu
85 90 95

aca gat ccg tgc gat tag 306
Thr Asp Pro Cys Asp
100

<210> 28

<211> 101

<212> PRT

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His Cys Gln Leu Cys Phe Leu Lys Lys Gly Leu Gly Ile Ser Tyr Gly 35 40 45

Arg Lys Lys Arg Lys His Arg Gly Thr Pro Gln Ser Ser Lys Asp 50 55 60

His Gln Asn Pro Ile Pro Glu Gln Pro Leu Pro Ile Ile Arg Gly Asn 65 70 75 80

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1 10 15

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Gln Pro Thr Thr Ala Cys Ser Asn Cys Tyr Cys Lys Met Cys Cys Trp
20 25 30

cat tgc caa ttg tgc ttt ctg aac aag ggc tta ggc atc tcc tat ggc
His Cys Gln Leu Cys Phe Leu Asn Lys Gly Leu Gly Ile Ser Tyr Gly
35
40
45

agg aag aag cgg aga cgc cga cga gga act cct cag agc cgt cag gat 192
Arg Lys Lys Arg Arg Arg Arg Gly Thr Pro Gln Ser Arg Gln Asp
50 55 60

cat caa aat cct gta cca aag caa ccc tta ccc acc acc aga ggg aac
His Gln Asn Pro Val Pro Lys Gln Pro Leu Pro Thr Thr Arg Gly Asn
65 70 75 80

WO 2005/049093 PCT/EP2004/012421 18/26 ccg aca ggc ccg aaa gaa tcg aag aag gag gtg gcg agc aag aca gag 288 Pro Thr Gly Pro Lys Glu Ser Lys Lys Glu Val Ala Ser Lys Thr Glu 306 aca gat ccg tgc gat tag Thr Asp Pro Cys Asp 100 <210> 30 <211> 101 <212> PRT <213> Human immunodeficiency virus <400> 30 Met Glu Pro Val Asp Pro Ser Leu Glu Pro Trp Asn His Pro Gly Ser 5 Gln Pro Thr Thr Ala Cys Ser Asn Cys Tyr Cys Lys Met Cys Cys Trp 25 20 30 His Cys Gln Leu Cys Phe Leu Asn Lys Gly Leu Gly Ile Ser Tyr Gly 35 40 Arg Lys Lys Arg Arg Arg Arg Gly Thr Pro Gln Ser Arg Gln Asp 50 55 His Gln Asn Pro Val Pro Lys Gln Pro Leu Pro Thr Thr Arg Gly Asn 65 70 75 Pro Thr Gly Pro Lys Glu Ser Lys Lys Glu Val Ala Ser Lys Thr Glu 85 Thr Asp Pro Cys Asp 100 <210> 31 <211> 348 <212> DNA <213> Human immunodeficiency virus <220> . <221> CDS <222> (1)..(348) <400> 31 atg gat cca gta gat cct gag atg ccc cct tgg cat cac cct gga agt 48 Met Asp Pro Val Asp Pro Glu Met Pro Pro Trp His His Pro Gly Ser

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Gln Pro Gln Thr Pro Cys Asn Lys Cys Tyr Cys Lys Arg Cys Cys Tyr

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PCT/EP2004/012421

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Ser Thr Arg Thr Gln Ile Asn Lys Val Val Arg Phe Asp Lys Leu Pro 50 55 60

Gly Phe Gly Asp Ser Ile Glu Ala Gln Cys Gly Thr Ser Val Asn Val 65 70 75 80

His Ser Ser Leu Arg Asp Ile Leu Asn Gln Ile Thr Lys Pro Asn Asp 85 90 95

Val Tyr Ser Phe Ser Leu Ala Ser Arg Leu Tyr Ala Glu Glu Arg Tyr 100 105 110

Pro Ile Leu Pro Glu Tyr Leu Gln Cys Val Lys Glu Leu Tyr Arg Gly 115 120 125

Gly Leu Glu Pro Ile Asn Phe Gln Thr Ala Ala Asp Gln Ala Arg Glu 130 135 140

Leu Ile Asn Ser Trp Val Glu Ser Gln Thr Asn Gly Ile Ile Arg Asn 145 150 155 160

Val Leu Gln Pro Ser Ser Val Asp Ser Gln Thr Ala Met Val Leu Val 165 170 175

Asn Ala Ile Val Phe Lys Gly Leu Trp Glu Lys Ala Phe Lys Asp Glu 180 185 190

Asp Thr Gln Ala Met Pro Phe Arg Val Thr Glu Gln Glu Ser Lys Pro 195 200 205

Val Gln Met Met Tyr Gln Ile Gly Leu Phe Arg Val Ala Ser Met Ala 210 215 -220 WO 2005/049093 PCT/EP2004/012421

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Glu Ser Ile Ile Asn Phe Glu Lys Leu Thr Glu Trp Thr Ser Ser Asn 260 265 270

Val Met Glu Glu Arg Lys Ile Lys Val Tyr Leu Pro Arg Met Lys Met 275 280 285

Glu Glu Lys Tyr Asn Leu Thr Ser Val Leu Met Ala Met Gly Ile Thr 290 295 300

Asp Val Phe Ser Ser Ser Ala Asn Leu Ser Gly Ile Ser Ser Ala Glu 305 310 315 320

Ser Leu Lys Ile Ser Gln Ala Val His Ala Ala His Ala Glu Ile Asn 325 330 335

Glu Ala Gly Arg Glu Val Val Gly Ser Ala Glu Ala Gly Val Asp Ala 340 345 350

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